

CLAIMS

1. A method of recycling a laminate shaped product, comprising the steps of: breaking a shaped product having a laminate structure including at least one layer of aliphatic polyester resin in addition to a principal resin layer, storing resultant broken pieces in a moisturizing environment to adjust a moisture content of the aliphatic polyester resin (layer) to at least 0.5 wt.%, and then washing the broken pieces with alkaline water to remove the aliphatic polyester resin layer, thereby recovering the principal resin.

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2. A method according to Claim 1, wherein the moisture of the aliphatic polyester resin (layer) is adjusted to at least 1 wt.% prior to the step of washing with alkaline water.

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3. A method according to Claim 1 or 2, wherein the storing in the moisturizing environment is performed by immersion in water.

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4. A method according to any one of Claims 1-3, wherein the broken pieces are washed with a 1 - 3 wt.% aqueous caustic soda solution at 70 - 98°C.

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5. A method according to any one of Claims 1-3, wherein the broken pieces are washed with a 1 - 3 wt.% aqueous caustic soda solution at 70 - 90°C.

6. A method according to any one of claims 1-5, wherein the broken pieces are washed with alkaline water containing at least 1 equivalent

with respect to the aliphatic polyester resin in the broken pieces.

7. A method according to any one of Claims 1-6, wherein the alkaline water is further caused to contain a surfactant.

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8. A method according to any one of Claims 1-7, wherein the aliphatic polyester resin comprises a glycolic acid polymer.

9. A method according to any one of Claims 1-8, wherein the principal
10 resin is a PET resin.

10. A method according to any one of Claims 1-9, wherein the
laminated shaped product has a structure including the principal resin
layer, the aliphatic polyester resin layer and the principal resin layer
15 laminated in this order.

11. A method according to any one of Claims 1-10 , wherein the
aliphatic polyester resin layer is colored, and the washing step is
terminated by confirming removal of the solid colored resin from the
20 broken pieces.